



09/693517

CofC

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In application of: Crowl et al.

Attorney Docket No.: SUN1P381/P4502

Patent: 7,080,370 B1

Issued: July 18, 2006

Title: METHOD AND APPARATUS FOR
COMPILING SOURCE PROGRAMS USING ONE
OR MORE LIBRARIES

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first-class mail on August 25, 2006 in an envelope addressed to the Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

Signed: _____

Aurelia M. Sanchez

**REQUEST FOR CERTIFICATE OF CORRECTION
OF OFFICE MISTAKE
(35 U.S.C. §254, 37 CFR §1.322)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Attn: Certificate of Correction

**Certificate
AUG 31 2006
of Correction**

Dear Sir:

Attached is Form PTO-1050 (Certificate of Correction) at least one copy of which is suitable for printing. The errors together with the exact page and line number where the errors are shown correctly in the application file are as follows:

CLAIMS:

1. In line 3 of claim 1 (column 8, line 15) delete "associated". This appears correctly in the Examiner's Amendment dated May 5, 2006, on page 2, claim 1, line 2.
2. In line 26 of claim 1 (column 8, line 39) delete "first". This appears correctly in the Examiner's Amendment dated May 5, 2006, on page 3, paragraph 1, line 13.

SEP 01 2006

3. In line 5 of claim 2 (column 8, line 48) add --the-- after "in". This appears correctly in Amendment E as filed on February 21, 2006, on page 2, claim 3, line 3.

4. In line 2 of claim 6 (column 8, line 60) delete "first". This appears correctly in the Examiner's Amendment dated May 5, 2006, on page 4, claim 8, line 2.

Patentee hereby requests expedited issuance of the Certificate of Correction because the error lies with the Office and because the error is clearly disclosed in the records of the Office. As required for expedited issuance, enclosed is documentation that unequivocally supports the patentee's assertion without needing reference to the patent file wrapper.

It is noted that the above-identified errors were printing errors that apparently occurred during the printing process. Accordingly, it is believed that no fees are due in connection with the filing of this Request for Certificate of Correction. However, if it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 500388 (Order No. SUN1P381).

Respectfully submitted,
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SEP 01 2006

DETAILED ACTION

1. This action is responsive to the Applicant's response filed 2/21/2006.

As indicated in Applicant's response, claims 1, 10, 14, 16 and 17 have been amended.

Claims 1, 3-8, 10-20 are pending in the office action.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Fred Mollborn, Reg # 48587 on 4/27/06.

The application has been amended as follows.

In the CLAIMS:

Claim 1:

A method of compilation of a source program written in one of the C++ and Ada programming languages into an object file, using one or more associated libraries of instances, wherein each instance is a specialization of a generic template and its available operations and is identified by a linker symbol name, and wherein the generic template is expressed in the same programming language as the source program, the method comprising, during compilation of the source program:

~~identifying one or more instances available for use in the one or more libraries using linker symbol names for the one or more instances;~~

examining linker symbol names in linker tables and instance names made available in the one or more libraries;

selecting linker symbol names that are likely to correspond to instances available for use in the one or more libraries;

saving the selected linker symbol names in an instance name storage;

receiving a first request to create a first an instance ~~during compilation of the source~~ program;

examining the instance name storage to determine ~~determining~~ whether the first instance has been identified in the one or more libraries; and

when the first instance has not been identified in the one or more libraries, creating the first instance, and

when the first instance has been identified in the one or more libraries, using the linker symbol name of the first instance as a reference to the first instance already contained within the one or more libraries; and

using either the newly created instance or the identified instance already contained within the one or more libraries to create the object file. ~~thereby avoiding duplication of instances already contained within the one and more libraries and reducing the time and amount of work needed for compiling the source program.~~

Claim 4: (Canceled)

Claim 5:

SEP 03 2009

Amendments to the Claims:

The following listing of claims replaces all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of compilation of a source program **written in one of the C++ and Ada programming languages** into an object file, using one or more associated libraries of instances, wherein each instance is a specialization of a **generic** template and its available operations, the method comprising:

identifying one or more instances available for use in the one or more libraries using linker symbol names for the one or more instances;

receiving a first request to create a first instance during compilation of the source program;

determining whether the first instance has been identified in the one or more libraries; and

when the first instance has not been identified in the one or more libraries, creating the first instance, and

when the first instance has been identified in the one or more libraries, using the linker symbol name of the first instance as a reference to the first instance already contained within the one or more libraries, thereby avoiding duplication of instances **already contained within the one and more libraries** and reducing the time **and amount of work** needed for compiling the source program.

2. (Canceled)

3. (Previously Presented) A method as recited in claim 1, wherein the creating of the first instance operates to create the first instance when the linker symbol name for the first instance does not match any of the identified linker symbol names for instances available for use in the one or more libraries.

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A method as recited in claim [[4]] 1, wherein the examining of symbol tables is done to extract all linker symbol names that are likely to correspond to instances.

Claim 6:

A method as recited in claim [[4]] 1, wherein the selecting of the linker symbol names that are likely to correspond to instances is done by selecting linker symbol names that include a predetermined sequence of characters.

Claim 7:

A method as recited in claim [[4]] 1, wherein the saving of the selected linker symbol names is done by using a hash table.

Claim 8:

A method as recited in claim [[4]] 1,
wherein determining whether the first instance has been identified in the one or more libraries further comprises:

obtaining a ~~first~~ linker symbol name for the ~~first~~ instance;

comparing the ~~first~~ linker symbol name with those selected linker symbol names in the instance name storage that are likely to correspond to template instances, and

wherein creating the ~~first~~ instance operates to create the ~~first~~ instance when the ~~first~~ linker symbol does not match any of those selected linker symbol names that are likely to correspond to template instances.

Claim 10:

SEP 01 2009

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(Also Form PT-1050)

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PATENT NO. : 7,080,370 B1

Page 1 of 1

DATED : July 18, 2006

INVENTOR(S) : Crowl et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the Claims:

In line 3 of claim 1 (column 8, line 15) delete "associated".

In line 26 of claim 1 (column 8, line 39) delete "first".

In line 5 of claim 2 (column 8, line 48) add --the-- after "in".

In line 2 of claim 6 (column 8, line 60) delete "first".

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